#12

OIPE

RAW SEQUENCE LISTING DATE: 01/27/2003
PATENT APPLICATION: **US/10/007,621C** TIME: 12:31:25

Input Set : **N:\vernette\J007621.raw**
Output Set: **N:\CRF4\01272003\J007621C.raw**

ENTERED

```
      1 <110> APPLICANT: Susan H. Hardin, James M. Briggs, Shiao-Chun Tu, Xiaolian Gao ad
Richard
      2       Willson
      3 <120> TITLE OF INVENTION: Enzymatic Nucleic Acid Synthesis: Compositions and Methods
for Altering
      4       Monomer Incorporation Fidelity
      5 <130> FILE REFERENCE: 00007/02UTL
      6 <140> CURRENT APPLICATION NUMBER: US/10/007,621C
      7 <141> CURRENT FILING DATE: 2002-12-26
      8 <150> PRIOR APPLICATION NUMBER: 60/250,764
      9 <151> PRIOR FILING DATE: 2000-12-01
     10 <160> NUMBER OF SEQ ID NOS: 9
     11 <170> SOFTWARE: PatentIn version 3.1
     13 <210> SEQ ID NO: 1
     14 <211> LENGTH: 7
     15 <212> TYPE: DNA
     16 <213> ORGANISM: Artificial
     17 <220> FEATURE:
     18 <223> OTHER INFORMATION: The sequences listed here are artifically generated DNA
sequences
     19       synthesized to test fidelity of monomer incorporation due to sub
     20       stitution at the gamma phosphate of the dNTPs.
     21 <400> SEQUENCE: 1
     22       atgcctg                                                              7
     24 <210> SEQ ID NO: 2
     25 <211> LENGTH: 19
     26 <212> TYPE: DNA
     27 <213> ORGANISM: Artificial
     28 <220> FEATURE:
     29 <223> OTHER INFORMATION: The sequences listed here are artifically generated DNA
sequences
     30       synthesized to test fidelity of monomer incorporation due to sub
     31       stitution at the gamma phosphate of the dNTPs.
     32 <400> SEQUENCE: 2
     33       ggtactaagc ggccgcatg                                                19
     35 <210> SEQ ID NO: 3
     36 <211> LENGTH: 20
     37 <212> TYPE: DNA
     38 <213> ORGANISM: Artificial
     39 <220> FEATURE:
     40 <223> OTHER INFORMATION: The sequences listed here are artifically generated DNA
sequences
     41       synthesized to test fidelity of monomer incorporation due to sub
     42       stitution at the gamma phosphate of the dNTPs.
```

43 <400> SEQUENCE: 3
44 ccatgattcg ccggcgtact 20
46 <210> SEQ ID NO: 4
47 <211> LENGTH: 20

RAW SEQUENCE LISTING DATE: 01/27/2003
PATENT APPLICATION: **US/10/007,621C** TIME: 12:31:25

Input Set : **N:\vernette\J007621.raw**
Output Set: **N:\CRF4\01272003\J007621C.raw**

```
     48 <212> TYPE: DNA
     49 <213> ORGANISM: Artificial
     50 <220> FEATURE:
     51 <223> OTHER INFORMATION: The sequences listed here are artifically generated DNA
sequences
     52       synthesized to test fidelity of monomer incorporation due to sub
     53       stitution at the gamma phosphate of the dNTPs.
     54 <400> SEQUENCE: 4
     55       ccatgattcg ccggcgtacc                                              20
     57 <210> SEQ ID NO: 5
     58 <211> LENGTH: 20
     59 <212> TYPE: DNA
     60 <213> ORGANISM: Artificial
     61 <220> FEATURE:
     62 <223> OTHER INFORMATION: The sequences listed here are artifically generated DNA
sequences
     63       synthesized to test fidelity of monomer incorporation due to sub
     64       stitution at the gamma phosphate of the dNTPs.
     65 <400> SEQUENCE: 5
     66       ccatgattcg ccggcgracg                                              20
     68 <210> SEQ ID NO: 6
     69 <211> LENGTH: 20
     70 <212> TYPE: DNA
     71 <213> ORGANISM: Artificial
     72 <220> FEATURE:
     73 <223> OTHER INFORMATION: The sequences listed here are artifically generated DNA
sequences
     74       synthesized to test fidelity of monomer incorporation due to sub
     75       stitution at the gamma phosphate of the dNTPs.
     76 <400> SEQUENCE: 6
     77       ccatgattcg ccggcgtaca                                              20
     79 <210> SEQ ID NO: 7
     80 <211> LENGTH: 23
     81 <212> TYPE: DNA
     82 <213> ORGANISM: Artificial
     83 <220> FEATURE:
     84 <223> OTHER INFORMATION: The sequences listed here are artifically generated DNA
sequences
     85       synthesized to test fidelity of monomer incorporation due to sub
     86       stitution at the gamma phosphate of the dNTPs.
     87 <400> SEQUENCE: 7
     88       ccatgattcg ccggcgtacc tag                                          23
     90 <210> SEQ ID NO: 8
     91 <211> LENGTH: 21
     92 <212> TYPE: DNA
     93 <213> ORGANISM: Artificial
     94 <220> FEATURE:
     95 <223> OTHER INFORMATION: The sequences listed here are artifically generated DNA
sequences
     96       synthesized to test fidelity of monomer incorporation due to sub
     97       stitution at the gamma phosphate of the dNTPs.
     98 <400> SEQUENCE: 8
     99       ccatgattcg ccggcgtact c                                            21
```

101 <210> SEQ ID NO: 9

RAW SEQUENCE LISTING DATE: 01/27/2003
PATENT APPLICATION: **US/10/007,621C** TIME: 12:31:25

Input Set : **N:\vernette\J007621.raw**
Output Set: **N:\CRF4\01272003\J007621C.raw**

102 <211> LENGTH: 23
103 <212> TYPE: DNA
104 <213> ORGANISM: Artificial
105 <220> FEATURE:
106 <223> OTHER INFORMATION: The sequences listed here are artifically generated DNA sequences
107 synthesized to test fidelity of monomer incorporation due to sub
108 stitution at the gamma phosphate of the dNTPs.
109 <400> SEQUENCE: 9
110 ccatgattcg ccggcgtact ttc 23

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 01/27/2003
PATENT APPLICATION: **US/10/007,621C** TIME: 12:31:26

Input Set : **N:\vernette\J007621.raw**
Output Set: **N:\CRF4\01272003\J007621C.raw**

Invalid Line Length:
The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 1,3,18
Seq#:2; Line(s) 29
Seq#:3; Line(s) 40
Seq#:4; Line(s) 51
Seq#:5; Line(s) 62
Seq#:6; Line(s) 73
Seq#:7; Line(s) 84
Seq#:8; Line(s) 95
Seq#:9; Line(s) 106

Invalid <213> Response:
Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9

VERIFICATION SUMMARY DATE: 01/27/2003
PATENT APPLICATION: **US/10/007,621C** TIME: 12:31:26

Input Set : **N:\vernette\J007621.raw**
Output Set: **N:\CRF4\01272003\J007621C.raw**